	Application No.	Applicant(s)
•	10/698,818	THOMPSON ET AL.
Notice of Allowability	Examiner	Art Unit
	Patricia L. Hailey	1755
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this a i) or other appropriate communication RIGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to an amendment filed	on December 20, 2004.	
2. ☑ The allowed claim(s) is/are <u>1-13 and 22-29</u> .		
3. The drawings filed on are accepted by the Examin	er.	
 4. ☐ Acknowledgment is made of a claim for foreign priority of a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	ve been received.	
Certified copies of the priority documents have		
Copies of the certified copies of the priority d	ocuments have been received in thi	s national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file a rep MENT of this application.	y complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi	mitted. Note the attached EXAMINE ves reason(s) why the oath or decla	R'S AMENDMENT or NOTICE OF ration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") m	ust be submitted.	
(a) including changes required by the Notice of Draftspe	rson's Patent Drawing Review (PT	O-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the draw	vings in the front (not the back) of 1(d).
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL T FOR THE DEPOSIT OF BIOLOGI	. must be submitted. Note the ICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892)	5 Notice of Informa	Patent Application (PTO-152)
 Notice of References Cited (P10-692) Dotice of Draftperson's Patent Drawing Review (PT0-948) 	<u> </u>	* * * * * * * * * * * * * * * * * * * *
Information Disclosure Statements (PTO-1449 or PTO/SB)	Paper No./Mail D	Date
Paper No./Mail Date	_	mont of Pageone for Allowance
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	9. ☐ Other	ment of Reasons for Allowance
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Applicants' remarks and amendments, filed on December 20, 2004, have been carefully considered. Claims 14-21, drawn to a non-elected method for carrying out a water gas shift reaction, have been canceled; no new claims have been added.

Claims 1-13 and 22-29 remain pending in this application.

Support for the amendments to claims 1, 10, 22, 28, and 29 can be found in the Specification at paragraphs [0021] and [0028].

Withdrawn Rejections

The 102(b) rejection of claims 1-4, 7-13, and 22-29 as being anticipated by Thompson et al. (U. S. Patent No. 6,297,185), and the 103(a) rejection of claim 6 as being unpatentable over Thompson et al. (U. S. Patent No. 6,297,185), stated in the previous Office Action, has been withdrawn in view of Applicants' amendments, and in view of Applicants' persuasive arguments regarding these rejections.

Allowable Subject Matter

1. Claims 1-13 and 22-29 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest the claimed catalyst composition comprising a late transition metal held upon a support, said support

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comprising a material having the formula $Mo_aW_{2-a}C_bN_{1-b}$, wherein $0 < a \le 2$ and $0 \le b \le 1$, and wherein the transition metal is loaded onto the support without exposing said support to air.

The prior art also does not teach or reasonably suggest the claimed method of preparing a supported transition metal composition, said method comprising a step wherein an unpassivated solid group 6 metal carbide or nitride is brought into contact with an aqueous solution of a late transition metal without exposing the metal carbide or nitride to air.

Thompson et al. (U. S. Patent No. 6,297,185), while teaching a catalyst comprised of a support body that is a transition metal based, electrically conductive ceramic, and of at least one noble metal supported on the support body (col. 2, lines 24-39 and col. 1, lines 26-34), as well as teaching a method for producing said catalyst, wherein, for example, hexachloroplatinic acid is dissolved in methanol to produce a solution, to which is added a tungsten carbide ceramic powder, the methanol is removed via evaporation, and the powder is placed in a tube. Through which a mixture of hydrogen and nitrogen is flowed, and the tube is heated, and as a result reduction of the chloroplatinic acid takes place. Following reduction, a passivating atmosphere comprising 1% oxygen and the balance nitrogen and temperature adjustment to 350°C is created within the tube.

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Applicants' claims in their present form require an <u>unpassivated</u> support, and recite that the transition metals are loaded onto the support without exposure to air.

Further, Thompson et al. refer to U. S. Patent No. 5,680,292 (Thompson, Jr., et al.) for preparation of Patentees' tungsten carbide ceramic powder, which was cited by the Examiner in the previous Office Action as prior art. In '292, the tungsten carbide powder is produced by method steps including passivation. See col. 4, line 46 to col. 5, line 35 of the '292 patent, where MoO₃ films are nitrided and then passivated in a flowing mixture of 1.06% oxygen in helium.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia L. Hailey whose telephone number is (571) 272-1369. The examiner can normally be reached on Mondays-Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark L. Bell can be reached on (571) 272-1362. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 1700 Receptionist, whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patricia L. Hailey/plh

Examiner, Art Unit 1755

January 21, 2005

DAVID SAMPLE
PRIMARY EXAMINER